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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	DEC 01	ChemPort single article sales feature unavailable
NEWS 3	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 4	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS 5	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 6	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 7	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 8	FEB 10	COMPENDEX reloaded and enhanced
NEWS 9	FEB 11	WTEXTILES reloaded and enhanced
NEWS 10	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 11	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 12	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 13	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 14	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 15	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 16	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 17	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 18	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS 19	MAR 11	ESBIOBASE reloaded and enhanced
NEWS 20	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS 21	MAR 23	CA/CAplus enhanced with more than 250,000 patent equivalents from China
NEWS 22	MAR 30	IMSPATENTS reloaded and enhanced
NEWS 23	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS 24	APR 07	STN is raising the limits on saved answers

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS      STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN      Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 18:23:09 ON 24 APR 2009

FILE 'REGISTRY' ENTERED AT 18:23:22 ON 24 APR 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 APR 2009 HIGHEST RN 1138395-00-2  
DICTIONARY FILE UPDATES: 23 APR 2009 HIGHEST RN 1138395-00-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

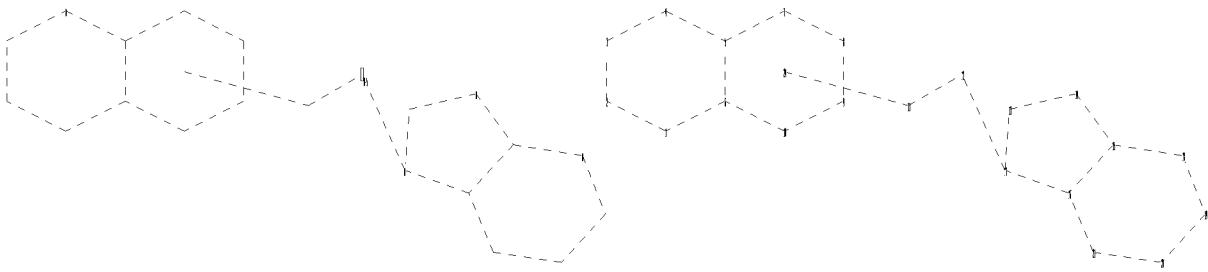
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> Uploading C:\Program Files\Stnexp\Queries\QUERIES\10550286.str



```

chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20 21
chain bonds :
11-12 12-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-17 13-14 14-15 15-16
15-18 16-17 16-21 18-19 19-20 20-21
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-17 13-17 13-14
14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21

```

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS

```

L1           STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1           STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s 11  
SAMPLE SEARCH INITIATED 18:23:41 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1246 TO ITERATE

100.0% PROCESSED   1246 ITERATIONS                                   0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   \*\*COMPLETE\*\*  
                                  BATCH   \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:       22803 TO   27037  
PROJECTED ANSWERS:           0 TO       0

L2 0 SEA SSS SAM L1

=> s 11 full  
FULL SEARCH INITIATED 18:23:45 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 24478 TO ITERATE

100.0% PROCESSED 24478 ITERATIONS  
SEARCH TIME: 00.00.01

7 ANSWERS

L3 7 SEA SSS FUL L1

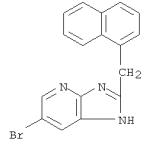
=> s 13 and caplus/lc  
65426321 CAPLUS/LC  
L4 5 L3 AND CAPLUS/LC

=> s 13 not 15  
L5 NOT FOUND  
The L-number entered could not be found. To see the definition  
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s 13 not 14  
L5 2 L3 NOT L4

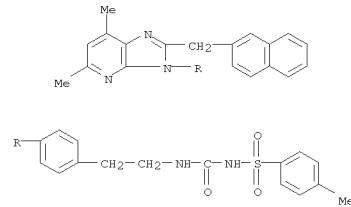
=> d 15 1-2

L5 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 502141-70-0 REGISTRY  
 ED Entered STN: 08 Apr 2003  
 CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-(1-naphthalenylmethyl)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(1-naphthalenylmethyl)- (9CI)  
 OTHER NAMES:  
 CN NSC 381508  
 MF C17 H12 Br N3  
 SR Chemical Library



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

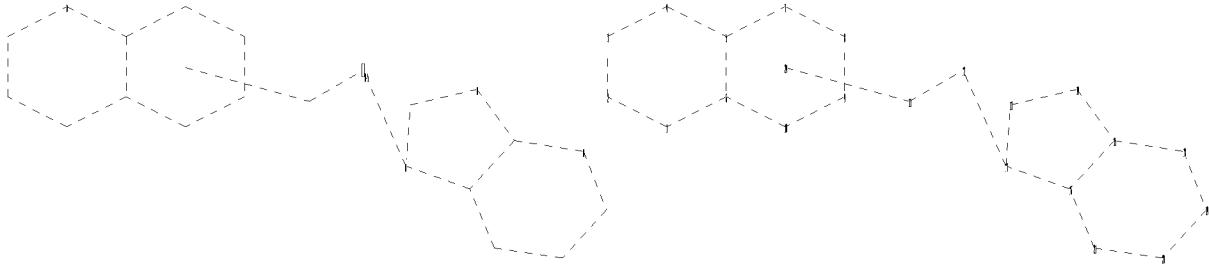
L5 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 415905-20-3 REGISTRY  
 ED Entered STN: 15 May 2002  
 CN Benzenesulfonamide, N-[[2-[4-[5,7-dimethyl-2-(2-naphthalenylmethyl)-3H-imidazo[4,5-b]pyridin-3-yl]phenyl]ethyl]amino]carbonyl]-4-methyl- (CA INDEX NAME)  
 MF C35 H33 N5 O3 S  
 CI COM  
 SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10550286.str



chain nodes :

11 12

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20 21

chain bonds :

11-12 12-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-17 13-14 14-15 15-16  
15-18 16-17 16-21 18-19 19-20 20-21

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-17 13-17 13-14  
14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS  
18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS

L6 STRUCTURE UPLOADED

=> d

L6 HAS NO ANSWERS

L6 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 18:25:28 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 62 TO ITERATE

100.0% PROCESSED 62 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**  
                      BATCH   **COMPLETE**  
PROJECTED ITERATIONS:    768 TO    1712  
PROJECTED ANSWERS:      0 TO     0
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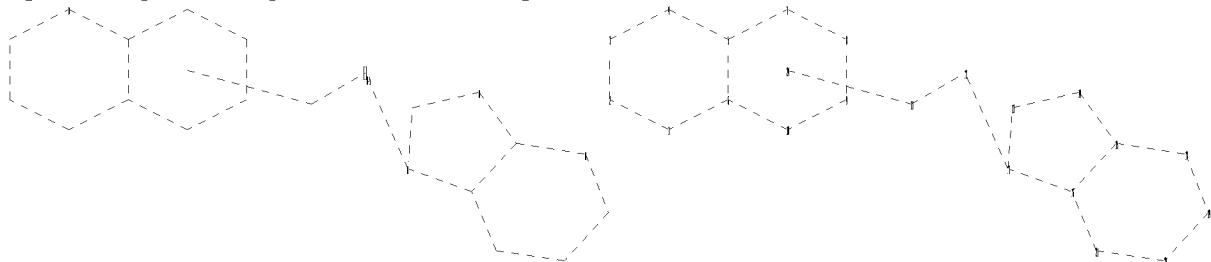
```
L7          0 SEA SSS SAM L6
```

```
=> s 16 full  
FULL SEARCH INITIATED 18:25:33 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1456 TO ITERATE
```

```
100.0% PROCESSED      1456 ITERATIONS          0 ANSWERS  
SEARCH TIME: 00.00.01
```

```
L8          0 SEA SSS FUL L6
```

```
=>  
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10550286.str
```



```
chain nodes :
```

```
11 12
```

```
ring nodes :
```

```
1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20 21
```

```
chain bonds :
```

```
11-12 12-17
```

```
ring bonds :
```

```
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-17 13-14 14-15 15-16  
15-18 16-17 16-21 18-19 19-20 20-21
```

```
exact/norm bonds :
```

```
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-17 13-17 13-14  
14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21
```

```
Match level :
```

```
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS  
18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS
```

L9 STRUCTURE UPLOADED

=> d  
L9 HAS NO ANSWERS  
L9 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s 19  
SAMPLE SEARCH INITIATED 18:26:34 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 101 TO ITERATE

100.0% PROCESSED 101 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1418 TO 2622  
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s 19 full  
FULL SEARCH INITIATED 18:26:39 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1971 TO ITERATE

100.0% PROCESSED 1971 ITERATIONS 8 ANSWERS  
SEARCH TIME: 00.00.01

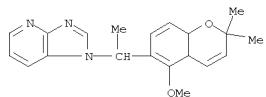
L11 8 SEA SSS FUL L9

=> s l11 and caplus/lc  
65426321 CAPLUS/LC  
L12 7 L11 AND CAPLUS/LC

=> s l11 not l12  
L13 1 L11 NOT L12

=> d

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1027238-12-5 REGISTRY  
ED Entered STN: 11 Jun 2008  
CN 1H-Imidazo[4,5-b]pyridine,  
1-[1-(4a,8a-dihydro-5-methoxy-2,2-dimethyl-2H-1-  
benzopyran-6-yl)ethyl]- (CA INDEX NAME)  
MF C20 H23 N3 O2  
SR Other Sources  
Database: ChemSpider (ChemZoo, Inc.)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=> fil caplus			
COST IN U.S. DOLLARS		SINCE FILE	TOTAL
		ENTRY	SESSION
FULL ESTIMATED COST		575.93	576.15

FILE 'CAPLUS' ENTERED AT 18:26:57 ON 24 APR 2009  
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FILE COVERS 1907 - 24 Apr 2009 VOL 150 ISS 18  
 FILE LAST UPDATED: 23 Apr 2009 (20090423/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 18:23:09 ON 24 APR 2009)

FILE 'REGISTRY' ENTERED AT 18:23:22 ON 24 APR 2009			
L1	STRUCTURE UPLOADED		
L2	0 S L1		
L3	7 S L1 FULL		
L4	5 S L3 AND CAPLUS/LC		
L5	2 S L3 NOT L4		
L6	STRUCTURE UPLOADED		
L7	0 S L6		
L8	0 S L6 FULL		
L9	STRUCTURE UPLOADED		
L10	0 S L9		
L11	8 S L9 FULL		
L12	7 S L11 AND CAPLUS/LC		
L13	1 S L11 NOT L12		

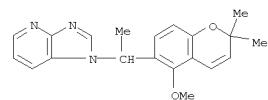
FILE 'CAPLUS' ENTERED AT 18:26:57 ON 24 APR 2009

=> s 112  
 L14 4 L12

```
=> d ibib abs hitstr 1-4
```

L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2005:76708 CAPLUS  
 DOCUMENT NUMBER: 142:230843  
 TITLE: Identification of a novel small-molecule inhibitor of the hypoxia-inducible factor 1 pathway  
 AUTHOR(S): Tan, Chalet; de Noronha, Rita G.; Roecker, Anthony J.; Pyrzynska, Beata; Khwaja, Fatima; Zhang, Zhaobin; Zhang, Huanchun; Teng, Quincy; Nicholson, Ainsley C.; Giannakou, Paraskevi; Zhou, Wei; Olson, Jeffrey J.; Pereira, M. Manuela; Nicolaou, K. C.; Van Meir, Erwin G.  
 CORPORATE SOURCE: Department of Neurosurgery, Emory University School of Medicine, Atlanta, GA, USA  
 SOURCE: Cancer Research (2005), 65(2), 605-612  
 PUBLISHER: American Association for Cancer Research  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Hypoxia-inducible factor 1 (HIF-1) is the central mediator of cellular responses to low oxygen and has recently become an important therapeutic target for solid tumor therapy. Inhibition of HIF-1 is expected to result in the attenuation of hypoxia-inducible genes, which are vital to many aspects of tumor biol., including adaptative responses for survival under anaerobic conditions. To identify small mols. inhibiting the HIF-1 pathway, we did a biol. screen in a 10,000-membered natural product-like combinatorial library. The compds. of the library, which share a 2,2-dimethylbenzopyran structural motif, were tested for their ability to inhibit the hypoxic activation of an alkaline phosphatase reporter gene under the control of hypoxia-responsive elements in human glioma cells. This effort led to the discovery of 103D5R, a novel small-mol. inhibitor of HIF-1 $\alpha$ . 103D5R markedly decreased HIF-1 $\alpha$  protein levels induced by hypoxia or cobaltous ions in a dose- and time-dependent manner, whereas minimally affecting global cellular protein expression levels, including that of control proteins such as HIF-1 $\beta$ , I $\kappa$ B $\alpha$ , and  $\beta$ -actin. The inhibitory activity of 103D5R against HIF-1 $\alpha$  was clearly shown under normoxia and hypoxia in cells derived from different cancer types, including glioma, prostate, and breast cancers. This inhibition prevented the activation of HIF-1 target genes under hypoxia such as vascular endothelial growth factor (VEGF) and glucose transporter-1 (Glut-1). Investigations into the mol. mechanism showed that 103D5R strongly reduced HIF-1 $\alpha$  protein synthesis, whereas HIF-1 $\alpha$  mRNA levels and HIF-1 $\alpha$  degradation were not affected. 103D5R inhibited the phosphorylation of Akt, Erk1/2, and stress-activated protein kinase/c-jun-NH2-kinase, without changing the total levels of these proteins. Further studies on the mechanism of action of 103D5R will likely provide new insights into its validity/applicability for the pharmacol. targeting of HIF-1 $\alpha$  for therapeutic purposes.  
 IT 773852-25-8, 103D5R  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 RN 773852-25-8 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(5-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)ethyl]- (CA INDEX NAME)

L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)  
 yl)ethyl]- (CA INDEX NAME)



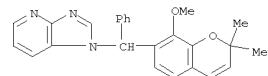
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:857335 CAPLUS  
 DOCUMENT NUMBER: 141:243534  
 TITLE: HIF-1 inhibitors  
 INVENTOR(S): Van Meir, Erwin; Tan, Chalet; Roecker, Anthony; Nicolaou, Kyriacos C.  
 PATENT ASSIGNEE(S): Emory University, USA; The Scripps Research Institute T.S.R.I.  
 SOURCE: PCT Int. Appl., 91 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

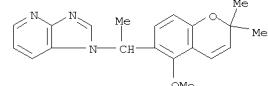
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087066	A2	20041014	WO 2004-US9548	20040329
WO 2004087066	A3	20050224		
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FW: BW, GH, GN, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2522441	A1	20041014	CA 2004-2522441	20040329
EP 1613311	A2	20060111	EP 2004-749494	20040329
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HO, PL, SK				
US 20070099952	A1	20070503	US 2005-550286	20050922
PRIORITY APFLN. INFO.:			US 2003-458218P	P 20030327
			WO 2004-US9548	W 20040329

OTHER SOURCE(S): MARPAT 141:343534  
 AB HIF-1 inhibitors and methods of their use are provided. In particular, 2,2-dimethylbenzopyran based compds. and methods of their use, for example in the treatment or prevention of hypoxia-related pathologies are provided.  
 IT 773852-24-7 773852-25-8 773852-26-9  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (HIF-1 inhibitors such as dimethylbenzopyran based compds. for treatment of hypoxia-related diseases in combination with other agents in relation with modulation of gene transcription)  
 RN 773852-24-7 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(8-methoxy-2,2-dimethyl-2H-1-benzopyran-7-yl)phenylmethyl]- (CA INDEX NAME)

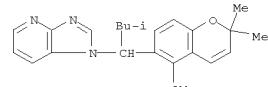
L14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



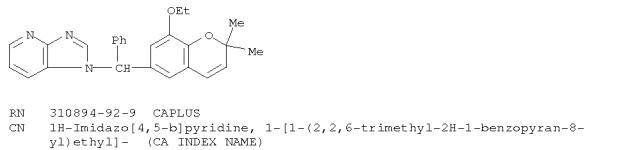
RN 773852-25-8 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(5-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)ethyl]- (CA INDEX NAME)



RN 773852-26-9 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(5-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-3-methylbutyl]- (CA INDEX NAME)

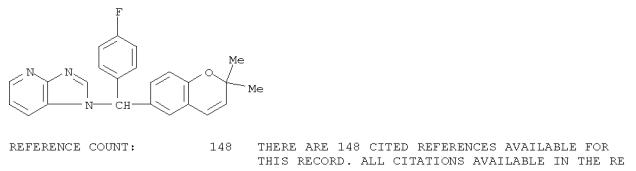


L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2000:690830 CAPLUS  
 DOCUMENT NUMBER: 134:29278  
 TITLE: Natural Product-like Combinatorial Libraries Based on Privileged Structures. 2. Construction of a 10 000-Membered Benzopyran Library by Directed Split-and-Pool Chemistry Using NanoKans and Optical Encoding  
 AUTHOR(S): Nicolaou, K. C.; Pfefferkorn, J. A.; Mitchell, H. J.; Roecker, A. J.; Barluenga, S.; Cao, G.-Q.; Affleck, R.  
 L.; Lillig, J. E.  
 CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA  
 SOURCE: Journal of the American Chemical Society (2000), 122 (41), 9954-9967  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 134:29278  
 AB Having developed a reliable and versatile solid-phase strategy for the split-and-pool synthesis of naturally occurring and designed derivs. of the benzopyran template, this was applied to the construction of a 10 000-membered natural product-like compound library for chemical biol. studies. Concomitantly, an early application of the IRORI NanoKan optical encoding system for the high throughput nonchem. tagging and sorting of library members during split-and-pool synthesis is reported. The overall synthetic strategy for library construction is discussed and the individual reaction pathways are examined in the context of specific library members, illustrating reaction conditions as well as yields and purities. The issues of building block selection and quality control of library members are also addressed and, finally, potential applications of the library to chemical biol. are discussed.  
 IT 310892-21-8P 310894-92-9P 310895-08-0P  
 RL: SPP (Synthetic preparation); PREP (Preparation) (preparation of a 10 000-membered benzopyran library by split-and-pool chemical using NanoKans and optical encoding)  
 RN 310892-21-8 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(2,2-dimethyl-2H-1-benzopyran-6-yl)phenylmethyl]- (CA INDEX NAME)



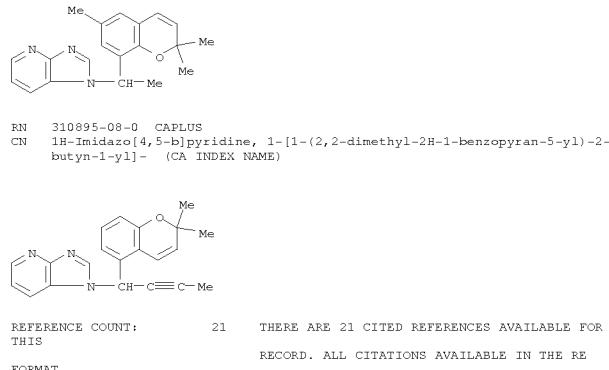
RN 310894-92-9 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(2,2,6-trimethyl-2H-1-benzopyran-8-yl)ethyl]- (CA INDEX NAME)

L14 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2000:690829 CAPLUS  
 DOCUMENT NUMBER: 134:17324  
 TITLE: Natural Product-like Combinatorial Libraries Based on Privileged Structures. 1. General Principles and Solid-Phase Synthesis of Benzopyrans  
 AUTHOR(S): Nicolaou, K. C.; Pfefferkorn, J. A.; Roecker, A. J.; Cao, G.-Q.; Barluenga, S.; Mitchell, H. J.  
 CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA  
 SOURCE: Journal of the American Chemical Society (2000), 122 (41), 9939-9953  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 134:17324  
 AB A novel strategy for the design and construction of natural and natural product-like libraries based on the principle of privileged structures, a term originally introduced to describe structural motifs capable of interacting with a variety of unrelated mol. targets, is reported. The identification of such privileged structures in natural products is discussed, and subsequently the 2,2-dimethylbenzopyran moiety is selected as an inaugural template for the construction of natural product-like libraries via this strategy. Initially, a novel solid-phase synthesis of the benzopyran motif is developed employing a unique cycloloading strategy that relies on the use of a new, polystyrene-based selenenyl bromide resin. Once the loading, elaboration, and cleavage of these benzopyrans was established, this new solid-phase method was then thoroughly validated through the construction of six focused combinatorial libraries designed around natural and designed mols. of recent biol. interest.  
 IT 310403-63-5P  
 RL: SPP (Synthetic preparation); PREP (Preparation) (solid-phase synthesis of natural product-related benzopyran libraries using polystyrene-supported selenenyl bromide)  
 RN 310403-63-5 CAPLUS  
 CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(2,2-dimethyl-2H-1-benzopyran-6-yl)(4-fluorophenyl)methyl]- (CA INDEX NAME)



REFERENCE COUNT: 148 THERE ARE 148 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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